1	we claim:			
2				
3	1. A version control system for managing versioned files comprising:			
4	a) a central server storing a repository of said versioned files;			
5	b) at least one proxy connected to said central server; each proxy including a read			
6	only cache for storing data from said repository;			
7	c) at least one client connected to each of said proxies;			
8	wherein modifications to said versioned files may only be made by said central server.			
9				
10	2. A version control system according to claim 1, wherein said central server includes a list			
1	of proxies for each branch in the version control system and an update informer to notify each			
12	proxy in the list when a change is made to each branch.			
13				
14	3. A version control system according to claim 1, wherein said central server includes an			
15	access control system to validate requests received by said central server.			
16				
17	4. A version control system according to claim 1, wherein said client obtains versions of			
18	files by requesting them from the corresponding proxy, and the proxy provides the version from			
19	its read-only cache when available and by requesting the version from the central server			
20	otherwise.			
21				
22	5. A version control system according to claim 1, wherein said proxy includes a mechanism			
23	for providing versions of files to connected clients using said read-only cache when the desired			
24	version is available and requesting the version from the central server otherwise.			
25				
26	6. A version control system according to claim 1, wherein the clients modify the repository			
27	through said central server.			
28				
29	7. A version control system according to claim 6, wherein the central server includes a			
30	checkout mechanism for controlling modification to the repository.			

1					
2	8.	A version control system according to claim 7, wherein the central server includes a log			
3	of changes made to the repository.				
4					
5	9.	A version control system, according to claim 8, wherein the log is used to update a proxy			
6	after a disruption to the connection between the proxy and the central server.				
7					
8	10.	A version control system according to claim 1, wherein a regional proxy is connected to			
9	said central server and to a plurality of proxy server in a geographic area, each of the plurality of				
10	proxy servers being connected to at least one client wherein updates from the central server to				
11	the plurality of proxy servers are first sent to the regional proxy.				
12					
13	11.	A method of modifying a repository of versions of files in a version control system			
14	including a central server and a client, said method comprising the steps of:				
15		a) the client requesting from the central server a lock on a version of a file in the version			
16		control system;			
17		b) the central server checking whether the requested version is unlocked, and if so			
18		granting the request; and			
19		c) the central server sending an update to other portions of the system.			
20					
21	12.	A method according to claim 11, wherein said lock prevents other clients from modifying			
22	said version of said file.				
23					
24	13.	A method according to claim 11, further comprising the step of said client modifying said			
25	version and returning the modification to said central server.				
26					
27	14.	A method according to claim 13, further comprising the step of said central server			
28	sendi	ng said modification to other portions of the system.			
29					

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1	15.	A central server in a version control system including proxy servers connected to clients			
2	comprising:				
3		a) a repository of versioned files;			
4		b) a version manager for providing versions of files from said repository;			
5		c) an access control system for managing requests from clients to modify the repository;			
6		d) a log of changes made to the repository;			
7		e) a list of connected proxies and portions of said repository, the proxies containing read-			
8	only caches of said portions of said repository for providing versions of files to said clients.				
9					
10	16.	A central server according to claim 15, wherein said log is used to update one of said			
11	read-only caches in a respective proxy after a disruption to the connection between said				
12	respective proxy and said central server				
13					
14	17.	A proxy server in a version control system including a central server containing a			
15	repository of versioned files and a client, said proxy server comprising:				
16		a) a read-only cache for storing data from said repository; and			
17		b) a version provider to provide a version of a file to said client, the version provider			
18		being configured to first check the read-only cache for the requested version and if it is			
19		not found, to request the version from said central server.			
20					
21	18.	A proxy server according to claim 17, wherein the read-only cache is configured to store			
22	copie	s of version requested from said central server.			
23					
24	19.	A computer readable medium containing processor instructions for implementing a			
25	version control system including:				
26		a) a central server storing a repository of versioned files;			
27		b) at least one proxy connected to said central server; each proxy including a read-			
28		only cache for storing data from said repository;			
29		c) at least one client connected to each of said proxies;			
30	where	ein modifications to said versioned files may only be made by said central server			

1 2 20. A computer readable medium according to claim 19, further comprising instructions to 3 maintain a list of proxies for each branch in the version control system and notify each proxy in 4 the list when a change is made to each branch. 5 6 21. A computer readable medium according to claim 19, wherein said central server includes 7 an access control system to validate requests received by said central server. 8 9 22. A computer readable medium according to claim 19, wherein said client obtains versions of files by requesting them from the corresponding proxy, and the proxy provides the version 10 from its read-only cache when available and by requesting the version from the central server 11 12 otherwise. 13 23. A computer readable medium according to claim 19, wherein said proxy includes a 14 mechanism for providing versions of files to connected clients using said read-only cache when 15 the desired version is available and requesting the version from the central server otherwise. 16 17 24. A computer readable medium according to claim 19, wherein the clients modify the 18 19 repository through said central server. 20 25. A computer readable medium according to claim 24, wherein the central server includes a 21 checkout mechanism for controlling modification to the repository. 22 23 A computer readable medium according to claim 25 wherein the central server includes a 24 26. 25 log of changes made to the repository. 26 27 27. A computer readable medium, according to claim 26, wherein the log is used to update a proxy after a disruption to the connection between the proxy and the central server. 28 29

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- 2 28. A computer readable medium according to claim 19, wherein a regional proxy is
- 3 connected to said central server and to a plurality of proxy server in a geographic area, each of
- 4 the plurality of proxy servers being connected to at least one client wherein updates from the
- 5 central server to the plurality of proxy servers are first sent to the regional proxy.